

SYSTEM FOR LIMITING REACTIVE TORQUE IN POWERTRAINS

ABSTRACT OF THE DISCLOSURE

0042 A control system limits reactive torque in a powertrain that is generated when braking force is applied to traction wheels during a sudden stop or other sudden braking event. The reactive torque generated at the traction wheels is prevented from being transmitted upstream through the driveline and powertrain by using a slip type clutch in the driveline to limit the upstream transfer of the reactive wheel torque. The clutch is directly actuated by the reactive torque and therefore does not require special controls or monitoring systems to sense the braking event. The clutch pressure may be automatically adjusted in response to certain operating conditions or events, thereby adjusting the point at which the clutch begins to slip due to reactive wheel torque.